

**8th International Workshop on Advances in the Molecular Pharmacology and Therapeutics of
Bone and other Musculoskeletal Diseases/
Cancer and Bone Society 2018 Meeting**

St Catherine's College, Oxford

30 June – 3 July 2018

Saturday 30 June

MolPharm

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| From 09:30 | Registration (Porters' Lodge) |
| 10:00-10:15 | Welcome and introduction |
| 10:15-12:55 | Bone biology and update on existing and emerging therapies: similarities and differences in mechanisms of action Chairs: Juliet Compston (Cambridge, UK) / Adolfo Diez-Perez (Barcelona, Spain) |
| 10:15 | Hot topics in bone biology and explaining how bone active drugs work Roland Baron (Boston, USA) |
| 10:45 | Overview of current treatments and the potential role of combination therapies in osteoporosis Bente Langdahl (Aarhus, Denmark) |
| 11:15 | Coffee |
| | Update on existing and emerging therapies Chairs: Núria Guañabens (Barcelona, Spain) / tbc |
| 11:45 | Lessons from SCOOP Eugene McCloskey (Sheffield, UK) |
| 12:00 | Optimising the use of zoledronate Ian Reid (Auckland, New Zealand) |
| 12:15 | Update on teraparotide and the VERO Study Fernando Marin (Eli Lilly, Madrid, Spain) |
| 12:35 | Non-invasive imaging of therapeutic responses in bone Ken Poole (Cambridge, UK) |
| 12:55 | Lunch |
| 14:00-15:15 | Hot topics in rare diseases: fibrodysplasia ossificans progressiva (FOP) and heterotopic ossification Chairs: Coen Netelenbos (Amsterdam, Netherlands) / tbc |
| 14:00 | Understanding fibrodysplasia ossificans progressiva (FOP): genetics and biological |

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| | consequences Eileen Shore (Philadelphia, USA) |
| 14:15 | Receptor mutations and activin action Aris Economides (Regeneron, Tarrytown, USA) |
| 14:30 | Heterotopic ossification: fibrodysplasia ossificans progressive, multiple osteochondromas and potential treatments Maurizio Pacifici (Philadelphia, USA) |
| 15:00 | Clinical trials in rare bone diseases: challenges and revelations Richard Keen (London, UK) |
| 15:15 | <i>Tea</i> |
| 15:35-16:45 | Hot topics in rare diseases, continued Chairs: Kassim Javaid (Oxford, UK) / Raj Thakker (Oxford, UK) |
| 15:35 | Treating inherited disorders of phosphate metabolism: FGF23 and other targets Tom Carpenter (New Haven, USA) |
| 15:55 | Treating skeletal dysplasia and achondroplasia Melita Irving (London, UK) |
| 16:10 | New approaches to treating disorders of the calcium sensing receptor Fadil Hannan (Liverpool, UK) |
| 16:25 | The challenges and opportunities in treating rare skeletal diseases Matt Warman (Boston, USA) |
| 16:45 | Break |
| 16:55-18:30 | Paget's Disease Chairs: Roger Francis (Newcastle upon Tyne, UK) / Stephen Tuck (Middlesbrough, UK) |
| 16:55 | The genetics and pathophysiology of Paget's disease Luigi Gennari (Sienna, Italy) |
| 17:20 | Guidelines and management of Paget's disease Stuart Ralston (Edinburgh, UK) |
| 17:50 | Secular changes in Paget's disease: lessons from Medieval times Robert Layfield (Nottingham, UK) |
| 18:05 | Student presentations |
| 18.30 | <i>Close</i> |
| 19:00 | <i>Dinner</i> |

Sunday 1 July

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| 08:45-10:25 | Musculoskeletal ageing and frailty Chairs: James Edwards (Oxford, UK) / Tash Masud (Nottingham UK) |
| 08:45 | Defining the scope and opportunities Cyrus Cooper (Southampton and Oxford, UK) |
| 09:05 | Biological mechanisms of ageing and senescence Lynne Cox (Oxford, UK) |
| 09:25 | The role of senescence in bone biology Sundeeep Khosla (Rochester, USA) |
| 09:45 | Therapeutic approaches in the elderly and frail Gary Krishnan (Eli Lilly, Indianapolis, USA) |
| 10:05 | Effects of bone active drugs on health and life span John Eisman (Sydney, Australia) |
| 10:25 | <i>Coffee</i> |
| 10:45-11:30 | Musculoskeletal ageing and frailty cont. Chairs: tbc |
| 10:45 | Lessons from clinical trials Steven Cummings (San Francisco, USA) |
| 11:05 | Ageing and musculoskeletal function: an update on the work of the Centre for Musculoskeletal Ageing Research (CMAR) Janet Lord (Birmingham, UK) |
| 11:30-12:45 | New technologies Chairs: Duncan Bassett (London, UK) / Philippe Clézardin (Lyon, France) |
| 11:30 | Big Data: integrating omics and cohorts André Uitterlinden (Rotterdam, Netherlands) |
| 12:00 | Bone biomarkers Richard Eastell (Sheffield, UK) |
| 12:20 | Use of miRNAs in diagnosis Matthias Hackl (TAmiRNA, Austria) |
| 12:45 | <i>Lunch</i> |
| 14:00-15:30 | Approaches to connective tissue repair and regeneration Chairs: Andy Carr (Oxford, UK) / Eric Hesse (Hamburg, Germany) |

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| 14:00 | Targeting musculoskeletal diseases and injuries to restore mobility Michaela Kneissel (Novartis, Basle, Switzerland) |
| 14:30 | Approaches to bone regeneration Frank Luyten (Leuven, Belgium) |
| 15:00 | BMPs and bone repair Slobodan Vukicevic (Zagreb, Croatia) |
| 15:15 | Clinical trials in degenerative disc disease Lovorka Grgurevic (Zagreb, Croatia) (tbc) |
| 15:30 | <i>Tea</i> |
| 16:00- 17:20 | Therapeutic advances in arthritis Chairs: tbc |
| 16:00 | Update on the pathogenesis of osteoarthritis and potential therapies Tonia Vincent (Oxford, UK) |
| 16:20 | Marrow lesions, pain and osteoarthritis Nidhi Sofat (London, UK) |
| 16:40 | Bisphosphonates in arthritis Erik Fink Eriksen (Oslo, Norway) |
| 17:00 | Epigenetics and osteoarthritis John Loughlin (Newcastle upon Tyne, UK) |
| 17:20 | Break |
| 17:30-18:00 | Keynote lecture Chairs: Gordon Duff (Oxford, UK) / John Potts (Boston, USA) Patients need new medicines: What are we doing about it? Chas Bountra (Oxford, UK) |
| 18:00- 19:00 | Poster viewing and welcome reception |
| 19:00 | <i>Dinner</i> |

Monday 2 July

CABS

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| 08:45-10:45 | CABS Clinical 1 Chairs: Karthik Ramasamy (Oxford, UK) / David Roodman (Indianapolis, USA) |
| 08:45 | Cancer-induced bone loss Peyman Hadji (Frankfurt, Germany) |
| 09:10 | Prostate cancer bone mets Nicholas James (Birmingham, UK) |
| 09:35 | Myeloma bone disease Andy Chantry (Sheffield, UK) |
| 10:00 | Immunotherapy and cancer Paul Moss (Birmingham, UK) (tbc) |
| 10:25 | Oral communications (2 x 8 mins) |
| 10:45 | <i>Coffee</i> |
| 11:15-12:45 | CABS Clinical 2 Chairs: Rob Coleman (Sheffield, UK) / tbc |
| 11:15 | Title tbc Kathy Weilbaecher (St Louis, USA) |
| 11:40 | Lung cancer bone mets Sarah Danson (Sheffield, UK) |
| 12:05 | Sarcoma and bone tumours Dominique Heymann (Sheffield, UK) |
| 12:30 | Oral communications (2 x 8 mins) |
| 12:45 | <i>Lunch</i> |
| 14:00-14:50 | CABS Molecular and metabolic pathways Chairs: Rachele Johnson (Nashville, USA) / Udo Oppermann (Oxford, UK) |
| 14:00 | Marrow adiposity and metabolism in skeletal health Cliff Rosen (Maine, USA) |
| 14:25 | Inflammation and bone metastasis Laurie McCauley (Michigan, USA) |
| 14:50 | <i>Tea and posters</i> |

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| 15:10-16:10 | Oral communications (7 x 8 mins) Chairs: tbc |
| 16:15-17:00 | Keynote lecture Chairs: tbc Historical perspective on cancer and bone Jack Martin (Melbourne, Australia) |
| 17:30-19:00 | New Investigator session |
| 19:00 | <i>Dinner</i> |
| 20:15 | <i>Walking tour: the University, book and film locations, historic pubs and their memorable patrons</i> |

Tuesday 3 July

CABS

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| 08:45-10:45 | Physiological responses to cancer: pain and muscle Chairs: Chas Bountra (Oxford, UK) / Kathy Waelbaeher (St Louis, USA) |
| 08:45 | Understanding and treating bone and musculoskeletal pain Patrick Mantyh (Tucson, USA) |
| 09:15 | Pharmacology of bisphosphonates in pain Thomas Tzschentke (Grunenthal, Aachen, Germany) |
| 09:30 | Role of the GDNF Family Receptor GFR α 3 in joint pain Michael LaCroix-Fralish (Regeneron, Tarrytown, USA) |
| 09:45 | Skeletal pain, Radium-223 and bone metastases Oyvind Bruland (Oslo, Norway) |
| 10:15 | Cancer-associated muscle weakness Theresa Guise (Indianapolis, USA) |
| 10:45 | <i>Coffee</i> |
| 11:15-12:45 | CABS – Tumour-bone microenvironment Chairs: Dominique Heymann (Sheffield, UK) / tbc |
| 11:15 | Tumour-host interactions in metastasis Ilaria Malanchi (London, UK) |
| 11:40 | Impact of sympathetic nerves on bone metastasis Florent Elefteriou (Houston, USA) |
| 12:05 | Immune control of bone metastasis Belinda Parker (La Trobe, Australia) |
| 12:30 | Oral communications (2 x 8 mins) |
| 12:45 | <i>Lunch</i> |
| 14:00-15:05 | CABS: Advances in imaging and genomics in the bone marrow microenvironment Chairs: tbc / Penny Ottewell (Sheffield, UK) |
| 14:00 | Imaging in the bone marrow microenvironment Cristina Lo Celso (London, UK) |
| 14:25 | Single cell genomics in cancer Adam Mead (Oxford, UK) |

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| 14:50 | Oral communications (2 x 8 mins) |
| 15:05 | Tea |
| 15:30- 16:45 | Epigenetic regulation in the tumour-bone microenvironment Chairs: Theresa Guise (Indianapolis, USA) / tbc |
| 15:30 | Epigenetic regulation in the tumour-bone microenvironment Udo Oppermann (Oxford, UK) |
| 15:55 | Epigenetic suppression in myeloma bone disease David Roodman (Indianapolis, USA) |
| 16.20 | Bisphosphonates for delivering drugs to bone Hal Ebetino (Rochester, USA) |
| 16:45- 17:30 | Keynote Lecture Chair: Claire Edwards (Oxford, UK) Myeloma: Past, present and future Gareth Morgan (Little Rock, USA) |
| 19:00 | <i>Dinner</i> |

July 4th
Kennedy Institute
Musculoskeletal Research in Oxford